Amendments to the Claims:

This listing of claims will replace all prior version, and listings of claims in the application:

1. (Currently Amended) A coaxial line, comprising:

a tubular inner conductor ~~(3),~~;

an outer conductor ~~(1),~~;

a plurality of insulating material struts ~~(5)~~ between the inner conductor and the outer conductor;~~,~~ and

a plurality of connections for conducting a coolant through the coaxial line,

wherein the inner conductor is configured to permit the coolant to be conducted through the tubular inner conductor ~~characterized in that the coolant may be conducted through the inner conductor (3)~~.

2. (Currently Amended) The coaxial line according to ~~C~~claim 1, wherein at least some of the insulating material struts include conduits through which ~~characterized in that~~ the coolant may be supplied and removed ~~via conduits (5.1) incorporated in at least some of the insulating material struts (5)~~.

3. (Currently Amended) The coaxial line according to ~~C~~claim 1 ~~or 2~~, wherein ~~characterized in that~~ the insulating material struts are arranged as tubes ~~(5)~~ which are led outward through the outer conductor ~~(1)~~.

4. (Currently Amended) The coaxial line according to ~~C~~claim 1 ~~or 2~~, wherein ~~characterized in that~~ the insulating material struts are implemented as full disks ~~(57)~~ having radial conduits ~~(57.1)~~.

5. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 4, characterized in that~~ claim 2, wherein the conduits ~~(5.1; 57.1)~~ of the insulating material struts ~~(5; 57)~~ open into a chamber ~~(6)~~ in an inner conductor connecting element ~~(4)~~ at the end of the tubular inner conductor ~~(3)~~.

6. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 5, characterized in that~~ claim 5, wherein a tube ~~(7)~~ of smaller diameter, which is sealed on its face at both ends, is positioned coaxially in the tubular inner conductor ~~(3)~~, and wherein the annular space ~~(8)~~ between said tube ~~(7)~~ and the tubular inner conductor ~~(3)~~ communicates with the conduits ~~(5.1; 57.1)~~ in the insulating material struts ~~(5; 57)~~.

7. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 5, characterized in that~~ claim 6, wherein the tube ~~(7)~~ is sealed on its face by a flange ~~(4.2)~~ arranged on the inner conductor connecting element ~~(4)~~.

8. (Currently Amended) The coaxial line according to ~~C~~claim 6, wherein ~~characterized in that~~ the tube ~~(7)~~ is sealed on its face via flanges ~~(71)~~ which are mounted on ~~the~~ a particular inner conductor connecting element in an axially and radially floating manner ~~(41.1, 71.1)~~.

9. (Currently Amended) The coaxial line according to ~~one of Claims 6 through 8, characterized in that~~ claim 6, wherein the tube ~~(7)~~ has centering elements ~~(72)~~ on its outer circumference which rest on the inner wall of the tubular inner conductor ~~(3)~~.

10. (Currently Amended) The coaxial line according to ~~one of Claims 6 through 9, characterized in that~~ claim 9, wherein the centering elements (72) are positioned along a spiral ~~(in a screw shape)~~ around the tube ~~(7)~~.

11. (Currently Amended) The coaxial line according to ~~one of C~~claim~~s 6 through~~ 9, ~~characterized in that~~ wherein the centering elements include ~~consist of~~ axially extending webs (72.1).

12. (Currently Amended) The coaxial line according to ~~one of C~~claim~~s 6 through 11~~ 9, ~~characterized in that~~ wherein the centering elements are of integral configuration with the tube ~~(7)~~.

13. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 12~~, ~~characterized in that~~ claim 2, wherein the tubular inner conductor ~~(30)~~ has axial conduits ~~(31)~~ in its jacket which communicate with the conduits in the insulating material struts.

14. (Currently Amended) The coaxial line according to ~~one of C~~claim~~s~~ 1 ~~through 13~~, ~~characterized in that it consists of~~ further comprising: a plurality of sections which are separately coolable ~~separately~~ from one another and are connected electrically and mechanically to one another ~~(A, B)~~.

15. (Currently Amended) The coaxial line according to ~~C~~claim 14, ~~characterized in that~~ wherein the tubular inner conductors ~~(3, 30)~~ of adjoining sections ~~(A, B)~~ of the line are connectable to one another via complementary plug-in connections.

16. (Currently Amended) The coaxial line according to ~~C~~claim 15, ~~characterized in~~

~~that~~ wherein the complementary plug-in connection ~~consists of~~ includes a flange plate ~~(10)~~, which terminates the chamber ~~(6)~~ of the inner conductor connecting element ~~(4)~~ and comprises an axially extending first annular shoulder ~~(10.1)~~ which overlaps a second annular shoulder ~~(11.1)~~ on a flange plate ~~(11)~~ of ~~the~~ an adjoining line section and is in turn overlapped to form a contact by a collar ~~(11.2)~~ of axially extending contact springs which concentrically encloses the second annular shoulder ~~(11.1)~~.

17. (Currently Amended) The coaxial line according to ~~C~~claim 16, ~~characterized in that~~ wherein the free ends of the contact springs of the contact spring collar ~~(11.2)~~ lie in a radial plane which is set back axially in relation to the radial plane containing the face of the second annular shoulder ~~(11.1)~~.

18. (Currently Amended) The coaxial line according to ~~C~~claims 17, ~~characterized in that~~ wherein the flange plates ~~(10, 11)~~ are screwed to the inner conductor connecting element ~~(4)~~.

19. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 18, characterized in that~~ claim 2, wherein the insulating material struts ~~(5)~~ are led through the outer conductor ~~(1)~~ ~~so they~~ , the insulting material struts floating in the axial direction.

20. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 19, characterized in that~~ claim 3, wherein the end of each insulating material strut ~~(5)~~ led through the outer conductor ~~(1)~~ is enclosed by a guide flange ~~(51),~~ which is held in a recess of the outer conductor in a floating manner in the axial direction, is sealed radially elastically in relation thereto, and is in contact radially elastically therewith.

21. (Currently Amended) The coaxial line according to ~~one of Claims 1 through 20, characterized in that~~ claim 1, wherein each of the tubular insulating material struts ~~(5)~~ is held tiltable in an axial plane with its inner end in the inner conductor connecting element ~~(4)~~ and with its outer end in the outer conductor wall ~~(1)~~.